Least Common Multiple

Name:_____   Date:_____

Find least common multiple by using prime factorization method.

1) **6, 9, 15**

Factors of 6   = _____

Factors of 9   = _____

Factors of 15   = _____

LCM(6, 9, 15)

2) **8, 12, 4**

Factors of 8   = _____

Factors of 12   = _____

Factors of 4   = _____

LCM(12, 8, 4)

3) **15, 12, 10**

Factors of 15   = _____

Factors of 12   = _____

Factors of 10   = _____

LCM(15, 12, 10)

4) **18, 8, 9**

Factors of 18   = _____

Factors of 8   = _____

Factors of 9   = _____

LCM(18, 8, 9)

5) **14, 4, 8**

Factors of 14   = _____

Factors of 4   = _____

Factors of 8   = _____

LCM(14, 4, 8)

Least Common Multiple

Name:_____   Date:_____

Find least common multiple by using prime factorization method.

1) **6, 9, 15**

Factors of 6   = 1, 2, 3, 6

Factors of 9   = 1, 3, 9

Factors of 15   = 1, 3, 5, 15

LCM(6, 9, 15)

90

2) **8, 12, 4**

Factors of 8   = 1, 2, 4, 8

Factors of 12   = 1, 2, 3, 4, 6, 12

Factors of 4   = 1, 2, 4

LCM(12, 8, 4)

24

3) **15, 12, 10**

Factors of 15   = 1, 3, 5, 15

Factors of 12   = 1, 2, 3, 4, 6, 12

Factors of 10   = 1, 2, 5, 10

LCM(15, 12, 10)

60

4) **18, 8, 9**

Factors of 18   = 1, 2, 3, 6, 9, 18

Factors of 8   = 1, 2, 4, 8

Factors of 9   = 1, 3, 9

LCM(18, 8, 9)

72

5) **14, 4, 8**

Factors of 14   = 1, 2, 7, 14

Factors of 4   = 1, 2, 4

Factors of 8   = 1, 2, 4, 8

LCM(14, 4, 8)

56